

WeatherSTEM Project, Hurricane Season Readiness

FDEM STATE METEOROLOGICAL SUPPORT UNIT






WeatherSTEM




- Real-time weather monitoring
- Streaming high-resolution cameras
- Weather health and safety alert notifications
- Lightning detection
- Heat-level monitoring
- Radar information

- Mobile App
- Social Media Interactions



FSWN MCFR 24
Indiantown

0.9 miles to



80.3°F

Wind 1 mph out of the NNW with gusts to 8 mph
Daily rainfall 0 in.




FSWN Martin Palm City

11.1 miles to




80.4°F

Wind 2 mph out of the NNE with gusts to 9 mph
Daily rainfall 0 in.




South Fork High School

13.9 miles to




77°F

Wind 9 mph out of the NNW with gusts to 9 mph
Daily rainfall 0.05 in.



FSWN Martin County
EOC

17 miles to



80.9°F

Wind 4 mph out of the N with gusts to 11 mph
Daily rainfall 0.01 in.





FSWN East Milton Recreation C...

FSWN Santa Rosa East Milton Park at sunrise and it's 53.5 F. #fisert





FSWN Nokuse Plantation @FSW...

FSWN Walton County Nokuse Plantation at sunrise and it's 48.6 F. #fisert





FSWN Miramar Beach @FSW...

FSWN Miramar Beach at sunrise and it's 62.5 F. #fisert





FSWN Inlet Beach @FSW...

FSWN Inlet Beach at sunrise and it's 56.9 F. #fisert





FSWN DeFuniak Springs @FSW...

FSWN DeFuniak Springs North at sunrise and it's 52.1 F. #fisert





Florida Severe Weather Network (FSWN)

- FDEM and WeathersSTEM Partnership
- Legislative Appropriation
- 50 weather stations
- Maintenance Contract
- Solar-Powered, battery back-up
- Cellular connection
- Community engagement with weather awareness and preparedness
- Weather data increase for significant events

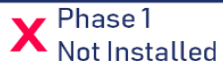




FDEM WeatherSTEM Units Installed or Planned As of 4/29



Phase 1



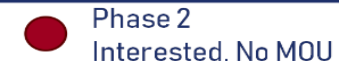
Phase 1
Not Installed



Phase 2



Phase 2
Signed MOU, Awaiting Install



Phase 2
Interested, No MOU

WeatherSTEM Units – Phase 1 (FY 19-20)

County	Station Name
Bay	FSWN Panama City Beach West End
Bay	FSWN Youngstown
Bay	FSWN Bay County Water Treatment Plant
Bay	FSWN Panama City Beach Sports Complex
Bay	FSWN Bay County Sheriff's Office
Bay	FSWN Mexico Beach
Dixie	FSWN Horseshoe Beach
Dixie	FSWN Dixie Co. Emergency Services Station 3
Dixie	FSWN Old Town Elementary School
Dixie	FSWN Fanning Springs
Duval	FSWN JFRD Station 40
Duval	FSWN Baldwin
Duval	FSWN Neptune Beach
Flagler	FSWN FCEM Marineland
Flagler	FSWN FCEM West-Flagler/Bunnell
Franklin	FSWN Franklin County EOC
Franklin	FSWN Island View Park
Franklin	FSWN Ochlockonee Boat Ramp
Indian River	FSWN Indian River Fire Station 5
Jackson	FSWN Jackson County EOC
Leon (FDEM)	FSWN State EOC
Levy	FSWN Otter Creek Town Hall
Liberty	FSWN Liberty County EOC
Marion	FSWN Dunnellon
Martin	FSWN Jensen Beach
Martin	FSWN Jupiter
Martin	FSWN Martin County EOC
Martin	FSWN Palm City
Martin	FSWN MCFR 24 Indiantown
Martin	FSWN Hobe Sound
Martin	FSWN House of Refuge
Martin	FSWN MCFR 16 Jensen Beach
Osceola	FSWN Osceola Heritage Park
Osceola	FSWN Holopaw Community Center
Santa Rosa	FSWN Santa Rosa Allentown
Santa Rosa	FSWN Santa Rosa East Milton Park
St. Johns	FSWN St. Johns County Fire Station 8
St. Johns	FSWN St. Johns County Fire Station 9
St. Lucie	FSWN St. Lucie EOC
St. Lucie	FSWN Hutchinson Island
Volusia	FSWN Beach Safety Headquarters Daytona Beach
Volusia	FSWN Volusia County Fire Station 22 Oak Hill
Wakulla	FSWN St. Marks
Walton	FSWN Inlet Beach
Walton	FSWN Miramar Beach
Walton	FSWN Mossy Head
Walton	FSWN Choctaw Beach
Washington	FSWN Washington County EOC

WeatherSTEM Units – Phase 2 (FY 20-21)

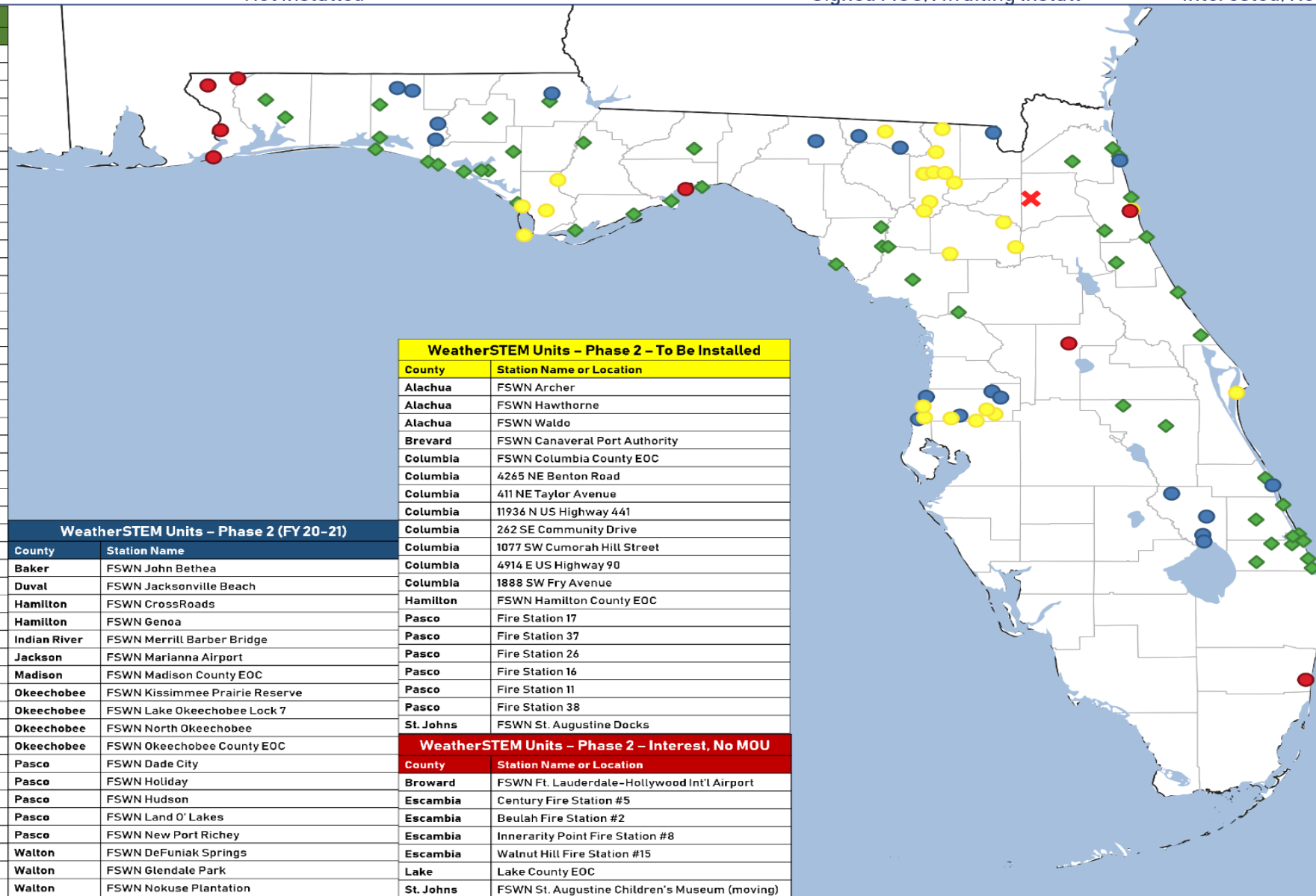
County	Station Name
Baker	FSWN John Bethea
Duval	FSWN Jacksonville Beach
Hamilton	FSWN CrossRoads
Hamilton	FSWN Genoa
Indian River	FSWN Merrill Barber Bridge
Jackson	FSWN Marianna Airport
Madison	FSWN Madison County EOC
Okeechobee	FSWN Kissimmee Prairie Reserve
Okeechobee	FSWN Lake Okeechobee Lock 7
Okeechobee	FSWN North Okeechobee
Okeechobee	FSWN Okeechobee County EOC
Pasco	FSWN Dade City
Pasco	FSWN Holiday
Pasco	FSWN Hudson
Pasco	FSWN Land O' Lakes
Pasco	FSWN New Port Richey
Walton	FSWN DeFuniak Springs
Walton	FSWN Glendale Park
Walton	FSWN Nokuse Plantation

WeatherSTEM Units – Phase 2 – To Be Installed

County	Station Name or Location
Alachua	FSWN Archer
Alachua	FSWN Hawthorne
Alachua	FSWN Waldo
Brevard	FSWN Canaveral Port Authority
Columbia	FSWN Columbia County EOC
Columbia	4265 NE Benton Road
Columbia	411 NE Taylor Avenue
Columbia	11936 N US Highway 441
Columbia	262 SE Community Drive
Columbia	1077 SW Cumorah Hill Street
Columbia	4914 E US Highway 90
Columbia	1888 SW Fry Avenue
Hamilton	FSWN Hamilton County EOC
Pasco	Fire Station 17
Pasco	Fire Station 37
Pasco	Fire Station 26
Pasco	Fire Station 16
Pasco	Fire Station 11
Pasco	Fire Station 38
St. Johns	FSWN St. Augustine Docks

WeatherSTEM Units – Phase 2 – Interest, No MOU

County	Station Name or Location
Broward	FSWN Ft. Lauderdale-Hollywood Int'l Airport
Escambia	Century Fire Station #5
Escambia	Beulah Fire Station #2
Escambia	Innerarity Point Fire Station #8
Escambia	Walnut Hill Fire Station #15
Lake	Lake County EOC
St. Johns	FSWN St. Augustine Children's Museum (moving)





Hurricane Isaiaas & Hurricane Sally

Sun Aug 02 6:30 AM

<p>U OF MIAMI ROSENSTIEL SCHOOL Key Biscayne, FL Miami Dade County, Florida Pressure: 29.689 in. Wind: 16 mph (Gusts 22 mph)</p>	<p>HT BIRCH STATE PARK Fort Lauderdale, FL Broward County, Florida Pressure: 29.587 in. Wind: 7 mph (Gusts 17 mph)</p>	<p>AD HENDERSON FAU HIGH Boca Raton, FL Palm Beach County, Florida Pressure: 29.615 in. Wind: 3 mph (Gusts 11 mph)</p>	<p>FPR WXEL SOUTH FLORIDA PBS Boynton Beach, FL Palm Beach County, Florida Pressure: 29.663 in. Wind: 10 mph (Gusts 24 mph)</p>
<p>FSWN HOBE SOUND Hobe Sound, FL Martin County, Florida Pressure: 29.837 in. Wind: 14 mph (Gusts 26 mph)</p>	<p>FSWN HOUSE OF REFUGE Stuart, FL Martin County, Florida Pressure: 29.738 in. Wind: 39 mph (Gusts 44 mph)</p>	<p>FSWN JENSEN BEACH OCEANFRONT Jensen Beach, FL Martin County, Florida Pressure: 29.770 in. Wind: 23 mph (Gusts 31 mph)</p>	<p>FSWN HUTCHINSON ISLAND Fort Pierce, FL St. Lucie County, Florida Pressure: 29.800 in. Wind: 9 mph (Gusts 28 mph)</p>
<p>FSWN INDIAN RIVER FIRE STATION 5 Vero Beach, FL Indian River County, Florida Pressure: 29.806 in. Wind: 3 mph (Gusts 11 mph)</p>	<p>PORT CANAVERAL Cape Canaveral, FL Brevard County, Florida Pressure: 29.875 in. Wind: 9 mph (Gusts 12 mph)</p>	<p>BEACH SAFETY HEADQUARTERS DAYTONA BEACH Daytona Beach, FL Volusia County, Florida Pressure: 29.894 in. Wind: 15 mph (Gusts 19 mph)</p>	<p>FLAGLER COUNTY EM HAMMOCK DUNES BRIDGE Palm Coast, FL Flagler County, Florida Pressure: 29.826 in. Wind: 6 mph (Gusts 14 mph)</p>
<p>FSWN FLAGLER COUNTY EM MARINELAND Palm Coast, FL Flagler County, Florida Pressure: 29.905 in. Wind: 12 mph (Gusts 18 mph)</p>	<p>FSWN DUVAL NEPTUNE BEACH Neptune Beach, FL Duval County, Florida Pressure: 29.960 in. Wind: 9 mph (Gusts 12 mph)</p>	<p>FSWN JFRD STATION 40 Jacksonville, FL Duval County, Florida Pressure: 29.947 in. Wind: 5 mph (Gusts 10 mph)</p>	<p>TIAA BANK FIELD Jacksonville, FL Duval County, Florida Pressure: 29.830 in. Wind: 8 mph (Gusts 10 mph)</p>

08/02/2020 06:30 AM



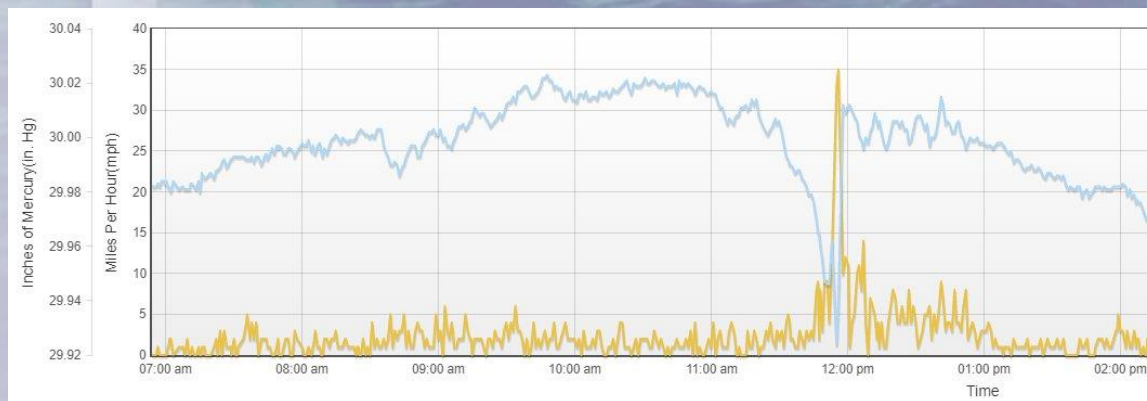


2019/07/09 13:21:33

St. George Island Bridge
Franklin County, FL



2020/05/06 19:13:28





WeatherSTEM FSWN Phase III

- ⦿ Phase 3 appropriation granted for FY22 (July 1, 2021 – June 30, 2022)
- ⦿ 50 stations
 - 3 Year Maintenance Contract with each station
- ⦿ Installation Requirements:
 - MOA from recipient (county or city) agreeing to Operations and Maintenance Costs years 4-10
 - Access to site property for installation and maintenance
- ⦿ Site Selection
 - Government-owned property preferred
 - Areas of sparse existing weather monitoring



Preparations for 2021 Hurricane Season

- Building on successes from 2019 & 2020
 - NWS deployments to SEOC
 - Decision support for state agencies
 - iPAWS alerts
- High-Resolution Statewide Graphics
 - Based on NWS data
 - Wider range of colors to identify focus areas
 - Develop webapp

